AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

- 1. (Currently Amended) A signal receiver having calibration for a frequency dependent I/Q phase error, comprising:
 - a calibration tone generator for generating a calibration tone for providing in-phase (I) and quadrature phase (Q) tone components:
 - I and Q <u>lowpass</u> filters for filtering said I and Q calibration tones for issuing filtered I and Q output tones having an undesired frequency dependent I/Q phase error, at least one of the I and Q <u>lowpass</u> filters having an adjustable characteristic; and
 - a correlator for cross correlating said I and Q output tones for providing a cross correlation feedback signal, said <u>cross</u> correlation feedback signal used for adjusting said adjustable characteristic for reducing said frequency dependent I/Q phase error; wherein
 - said I and Q <u>lowpass</u> filters include an I analog <u>lowpass</u> filter for providing said I output tone and a Q analog <u>lowpass</u> filter for providing said Q output tone and said adjustable characteristic is a cutoff frequency of at least one of said I and Q analog <u>lowpass</u> filters.
- (Currently Amended) The receiver of claim 1, wherein:
 said <u>cross</u> correlation feedback signal adjusts said adjustable
 characteristic for minimizing a phase difference between said I output tone and said Q output tone.
- 3. (Currently Amended) The receiver of claim 1, wherein:

said calibration tone has a frequency near to a cutoff frequency for said I and Q lowpass filters.

- 4. (Cancelled).
- 5. (Currently Amended) The receiver of claim 1, wherein: said cutoff frequency is adjusted by frequency scaling at least one pole and at least one zero of said at least one of said I and Q analog lowpass filters by a certain common factor.
- 6. (Currently Amended) The receiver of claim 45, wherein: said certain common scale factor is adjusted by adjusting <u>a</u>channel resistance of at least one transistor.
- 7. (Cancelled).
- 8. (Cancelled).
- 9. (Original) The receiver of claim 1, further comprising:
 - a frequency downconverter including a local oscillator for providing a complex LO signal and I and Q frequency downconverters using said LO signal for downconverting an input signal having a carrier frequency to I and Q signal components; and wherein:
 - the calibration tone generator issues a calibration signal as said input signal having a certain frequency offset from said carrier frequency for providing said I and Q calibration tone components in place of said I and Q signal components.
- 10. (Currently Amended) A method for correcting frequency dependent I/Q phase error, said method comprising:

- generating a calibration tone for providing in-phase (I) and quadrature phase (Q) tone components;
- filtering said I and Q calibration tones for providing filtered I and Q output tones having undesired frequency dependent I/Q phase error, comprising:

filtering said I calibration tone component with an I analog

lowpass filter for providing said I output tone; and

filtering said Q calibration tone component with a Q analog

lowpass filter for providing said Q output tone;

- cross correlating said I and Q output tones for providing a cross correlation feedback signal; and
- adjusting an adjustable characteristic of at least one of the I and Q filters with said correlation feedback signal for reducing said frequency dependent I/Q phase error comprising adjusting a cutoff frequency of at least one of said I and Q analog lowpass filters.
- 11. (Currently Amended) The method of claim 10, wherein: the step of adjusting said adjustable characteristic includes minimizing a phase difference between said I output tone and said Q output tone.
- 12. (Currently Amended) The method of claim 10, wherein: said calibration tone has a frequency near to a cutoff frequency for said I and Q analog lowpass filters.
- 13. (Cancelled)
- 14. (Currently Amended) The method of claim 10, wherein: the step of adjusting said cutoff frequency includes frequency scaling at least one pole and at least one zero of said at least one of said I and Q analog lowpass filters by a certain common factor.

- 15. (Currently Amended) The method of claim 10, wherein: said step of frequency scaling includes adjusting <u>a</u> channel resistance of at least one transistor.
- 16. (Cancelled).
- 17. (Cancelled).
- 18. (Currently Amended) The method of claim 10, further comprising:

 frequency downconverting an input signal having a carrier frequency with
 a complex LO signal to I and Q signal components; and wherein:
 the step of generating said calibration tone includes issuing a calibration
 signal as said input signal having a certain frequency offset from
 said carrier frequency for providing said I and Q calibration tone
 components in place of said I and Q signal components.